

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (original): A self-ballasted fluorescent lamp comprising:

a fluorescent lamp;

a lighting circuit having a one-package switch, inductors, and capacitors, said one-package switch containing in a single package a pair of field effect transistors that serve as inverter switches for driving the fluorescent lamp; and

a circuit board having a first face facing away from said fluorescent lamp and a second face facing towards said fluorescent lamp, said first face having at least both a smoothing capacitor and a current-limiting inductor, which have relatively large dimensions, mounted thereon;

wherein:

said one-package switch is a generally rectangular surface mounting device with a length and width respectively not exceeding 6 mm and provided with terminals extending from two opposing sides thereof; and

said one-package switch is surface mounted on either said first face or said second face of said circuit board through said terminals.

Claim 2 (original): A self-ballasted fluorescent lamp as claimed in claim 1, wherein:

said fluorescent lamp has electrodes; and

said one-package switch is surface mounted on said second face of said circuit board, at a location apart from said electrodes.

Claim 3 (original): A self-ballasted fluorescent lamp as claimed in claim 1, wherein:

said one-package switch is surface mounted on said second face of said circuit board; and

no components are mounted on the area of said first face that corresponds to the area of said second face where said one-package switch is mounted.

Claim 4 (original): A self-ballasted fluorescent lamp as claimed in claim 1, wherein:
said one-package switch is surface mounted on said second face of said circuit board; and
no components that emit heat are mounted on the area of said first face that corresponds to
the area of said second face where said one-package switch is mounted.

Claim 5 (original): A self-ballasted fluorescent lamp as claimed in claim 1, wherein:
said one-package switch is surface mounted in such an orientation that the field effect
transistor that has a higher on-resistance faces the peripheral edge of said circuit board.

Claim 6 (currently amended): A self-ballasted fluorescent lamp as claimed in claim 1,
wherein:

said self-ballasted fluorescent lamp ~~comprises~~includes:
a base disposed at said second-face side of said circuit board;

a through hole formed through said circuit board so as to extend from said first face to said
second face;

a long-tip type capillary tube extending from said fluorescent lamp so that the tip of said
capillary tube pass through said through hole towards said base, and

a main amalgam enclosed in said capillary tube;

wherein:

said one-package switch is mounted near said through hole.

Claim 7 (currently amended): A self-ballasted fluorescent lamp as claimed in claim 1,
wherein:

said circuit board is of a double-side mounting type; and
said one-package switch is surface mounted on said first face of said circuit board.

Claim 8 (original): A self-ballasted fluorescent lamp as claimed in claim 1, wherein:
said field effect transistors are complementary.

Claim 9 (currently amended): A self-ballasted fluorescent lamp as claimed in claim 1,
wherein:

the drain-source voltage of said field effect transistors is set at 200V or more, ~~and~~while the
drain current of said field effect transistors is set at 0.5A or more.

Claim 10 (currently amended): A self-ballasted fluorescent lamp comprising:
a fluorescent lamp;
a lighting circuit having a one-package switch, inductors, and capacitors, said one-package
switch containing in a single package, a pair of field effect transistors that serve as inverter switches
for driving the fluorescent lamp;
a circuit board having a first face facing away from said fluorescent lamp and a second face
facing towards said fluorescent lamp, said first face having at least both a smoothing capacitor and a
current-limiting inductor, ~~which have relatively large dimensions,~~ mounted thereon; and
a base disposed at the second-face side of said circuit board;
wherein:
said one-package switch is a generally rectangular surface mounting device with a length
and width respectively not exceeding 6 mm; and
said lighting circuit is contained in said base.

Claim 11 (original): A self-ballasted fluorescent lamp as claimed in claim 1, wherein:
said base has an opening at the base end thereof;
said circuit board is positioned so as to close off said opening; and
said one-package switch is attached to said first face of said circuit board.

Claim 12 (currently amended): A luminaire comprising:

a main body; and

a self-ballasted fluorescent lamp as claimed in ~~any one of the claims from claim 1 to claim~~ 11, said self-ballasted fluorescent lamp attached to said main body.

Claim 13 (new): A luminaire comprising:
a main body; and
a self-ballasted fluorescent lamp as claimed in claim 10, said self-ballasted fluorescent lamp attached to said main body.